Claims

[c]

1. A method, comprising:

forming a bulk metallic glass, of a plurality of materials forming an alloy, said alloy being a non Be containing alloy; and

stabilizing one of a plurality of phases of said alloy relative to another of said phases.

[c]

2. A method as in claim 1, wherein said stabilizing comprises adjusting ratios between components of said alloy.

[c]

3. A method as in claim 1, wherein said plurality of materials include Zr, Nb, Cu, Ni, and Al.

[c]

4. A method as in claim 3, wherein said alloy is

$Zr_{58.47}Nb_{2.76}Cu_{15.4}Ni_{12.6}Al10.37$

5. A method, comprising:

forming a bulk metallic glass, of a plurality of materials forming an alloy having said plurality of materials having Zr, Nb, Cu, Ni, and Al; and

adjusting ratios between said plurality of materials to stabilize one phase of said alloy relative to another.

[c]

6. A method as in claim 5, wherein said said alloy is $Zr_{58.47}Nb_{2.76}Cu_{15.4}Ni_{12.6}Al10.37$.

7. A method, comprising:

forming a bulk metallic glass of the form $Zr_{57+\delta/2}Nb_{5-\delta}Cu_{15.4}Ni_{12.6}Al10+\delta/2$

, where δ is nonzero.

[c]

8. A method as in claim 7, where δ is between 2 and 3.

[c]

9. A method as in claim 7, where δ is less than 1 but greater than 0.

[c]

10. A method as in claim 7, where δ is between 0.25 and 0.75.

[c]

11. A method comprising:

forming a bulk metallic glass of the form $Zr_{58.47}Nb_{2.76}Cu_{15.4}Ni_{12.6}Al10.37$.

12. A bulk metallic glass of the form $Zr_{58.47}Nb_{2.76}Cu_{15.4}Ni_{12.6}Al_{10.37}$.

[c]

13. A method comprising:

determining information about competing formation phases of a bulk metallic glass; and

changing a ratio between components of said bulk metallic glass to stabilize one of said formation phases relative to another of said formation phases.

[c]

14. A method as in claim 13, wherein said components include Zr, Nb, Cu, Ni, and Al.

[c]

15. A method as in claim 13, wherein said ratio is changed as form $Zr_{57+\delta/2}Nb_{5-\delta}Cu_{15.4}Ni_{12.6}Al10+\delta/2$

, where δ is nonzero.